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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/005,551	11/08/2001		Santanu Dutta	US018181	8019	
75	590	08/31/2004		EXAMINER		
Corporate Patent Counsel				MALZAHN, DAVID H		
Philips North America Corporation 580 White Plains Road				ART UNIT	PAPER NUMBER	
Tarrytown, NY 10591				2124		
				DATE MAIL ED: 08/31/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

DK.

	Application No.	Applicant(s)						
	10/005,551	DUTTA ET AL.	DF-					
Office Action Summary	Examiner	Art Unit						
•	David H. Malzahn	2124						
The MAILING DATE of this communicate		[]	idress					
Period for Reply		,						
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA* - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communice. If the period for reply specified above is less than thirty (30) date. If NO period for reply is specified above, the maximum statutor. Failure to reply within the set or extended period for reply will, I Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	FION. CFR 1.136(a). In no event, however, tition. rs, a reply within the statutory minimu y period will apply and will expire SIX by statute, cause the application to be	may a reply be timely filed m of thirty (30) days will be considered time (6) MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).						
Status			Į.					
1) Responsive to communication(s) filed on	n .							
, = ,	☐ This action is non-final.							
3) Since this application is in condition for	3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims			;					
4) Claim(s) 1-20 is/are pending in the applied 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction	rithdrawn from consideration							
Application Papers								
9) The specification is objected to by the Ex	caminer.							
10)⊠ The drawing(s) filed on <u>08 November 20</u> the Examiner.		s/are: a)⊠ accepted or b)⊡ o	objected to by					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by	*		, ,					
Priority under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. BEST AVAILABLE COPY								
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-53) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date 19 December 2003.	948) Paj /SB/08) 5) 🔲 No	erview Summary (PTO-413) per No(s)/Mail Date tice of Informal Patent Application (PToer:	O-152)					

Application/Control Number: 10/005,551

Art Unit: 2124

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Daniels et al

(Daniels).

Daniels discloses both an apparatus and a method for adding an N bit operand and an M

bit operand by adding respective least-significant bit sets of the two operands to produce a least-

significant bits partial sum and a carry-out followed by outputting a most-significant bits sum by

passing out the most-significant bits of the N bit operand or an offset of the most-significant bits

of the N bit operand in responsive to the most-significant bit of the set of least-significant bits of

the M bit operand and the carry-out, note the abstract. Daniels increment/decrement network in

conjunction with the temporary register functions as multiplexer, note the last line of the abstract.

Claim Rejections - 35 USC § 112

3. Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

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Claim 1 is mis-descriptive because N must to greater than M if the multiplexer outputs a most-significant bit partial sum and because the selection data is a function of the most-significant bit of the set of least-significant bits of the second, not first, binary operand, note Equ. B. Also, claim 1 is incomplete because the necessary 2's complement format of the operands to be added fails to be recited. Claims 18 and 19 contain deficiencies similar to claim 1. In claim 3 the phrase "the N-M bit most-significant bits partial sum" lacks clear antecedent basis. Claims 11 and 12 are inconsistent with claim 1 relative to the selection data. Claims 14 and 15 are inconsistent with claim 1 because claim 1 requires signed binary numbers. Claims 16 and 17 are inconsistent with claim 1 because claim 1 is limited to an adder circuit. Claim 20 is incomplete because the necessary 2's complement format of the operands fails to be recited. Also in claim 20, lines 5-8 are inconsistent with lines 3-4 because the adder's (N-M)th bit internal carry bit is the most significant bit of the N-M+1 partial sum. Finally in claim 20 the body of the claim is inconsistent with the preamble because the body recites structure whereas the preamble calls for a method.

Allowable Subject Matter

4. Claim 20 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Preliminary Amendments

5. Applicants' preliminary amendments of 20 February 2002 and 05 March 2002 appear to be identical. Please clarify.

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Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David H. Malzahn whose telephone number is (703) 305-9762. The examiner can normally be reached on M-Th from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on 703-305-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 8/66-217-9197 (toll-free).

David H. Malaahn Primary Examiner Art Unit 2124